



Our Ref. : NT/103679/18-06

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Report No: NDT/RT/180549-01/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI-WPS-AS-10H/8-F-126	IQI type :	ASTM 1B
Material:	SA 240 UNS S32205 TP SA 240 TP 304L	Film Manufacturer/Type :	FUJI 50(class I)
Welding Process :	FCAW	Density :	2.0 - 3.5
Examination Code :	ASME V	Sensitivity:	0.33mm(5 wires visible)
Acceptance Code:	ASME Section IX ; 2017 Edition.	Source to Object Distance :	400mm
Examination Date:	15 May 2018	Source Side of Object to Film Distance:	(8+3)mm
		No of Radiograph(exposure) :	Single Exposure
		No. of Film Each Cassette :	1 Film
		Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
		Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Chen Chee Kheong 761028-08-6103 (W-028) 3G	11	3	--	8	0 - 1	Sur	Accept	

\_\_\_\_\_ End of Report \_\_\_\_\_

#### Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

### Personnel Particulars

Radiographer: Emirsham - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 16 May 2018



Client Representative:

Name:

Date:



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Report No: NDT/RT/180549-02/18

## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI-WPS-AS-10H/10H-F-123	IQI type :	ASTM 1B
Material:	SA 240 UNS S32205 TP SA 240 UNS S32205	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Section IX ; 2017 Edition.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	15 May 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Phang Chee Heong 690519-08-6279 (W-012) 3G	11	3	-	8	0 - 1	NRI	Accept	

\_\_\_\_\_ End of Report \_\_\_\_\_

#### Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 16 May 2018



Client Representative:

Name:  
Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI-WPS-AS-10H/10H-S-124	IQI type :	ASTM 1B
Material:	SA 240 UNS S32205 TP SA 240 UNS S32205	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(8+3)mm
Welding Process :	SMAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Section IX ; 2017 Edition.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	15 May 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Chan Yeng Meng 650104-08-5725 (W-004) 3G	11	3	-	8	0 - 1	Por / Sur	Accept	

\_\_\_\_\_ End of Report \_\_\_\_\_

#### Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II  
 Interpreted & Evaluated By: M.Nazib - NDT Lev.II  
 Date: 16 May 2018



Client Representative:  
 Name:  
 Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI-WPS-AS-10H/10H-F-127	IQI type :	ASTM 1B
Material:	SA 240 UNS S32205 TP SA 240 UNS S32205	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(25+3)mm
Welding Process :	FCAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Section IX ; 2017 Edition.	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	15 May 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference (Welder No)	WT (mm)	RT (mm)	Pipe Diameter (mm)	Material Thickness (mm)	Film Position	Film Interpretation	Result	Remarks
Wong Yau Chong 640612-08-5793 (W-038) 3G	28	3	-	25	0 - 1	SI	Reject	

End of Report

#### Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Client Representative:

Interpreted & M.Nazib - NDT Lev.II

Evaluated By:

Name:

Date: 16 May 2018

Date:





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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/XRT/ISO REV 1.0
Project :	PMI-WPS-EN-8/8-A-135	IQI type :	DIN FE 10-16
Material:	SA 240 GR 304 To SA 240 GR 304	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	400mm
		Source Side of Object to Film Distance:	(15+3)mm
Welding Process :	SAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	BS EN ISO 17636	No. of Film Each Cassette :	1 Film
Acceptance Code:	BS EN ISO 15614-1 ; 2017	Radiographic Technique :	SWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	15 May 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radiographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
See Hong Yeong 660213-08-6199 (W-010) 1G	18	3	-	15	0 - 1	NRI	Accept	

\_\_\_\_\_ End of Report \_\_\_\_\_

#### Legend:

TI : Tungsten Inclusion	NRI : No Relevant Indication	UN : Undercut	Por : Porosity	WT : Weld Thickness
SI : Slag Inclusion	LP : Lack of Penetration	Con : Concavity	BT : Burn Through	RT : Reinforcement Thickness
LF : Lack of Fusion	EP : Excess Penetration	AR : Artifact	Sur : Surface	

### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Interpreted & Evaluated By: M.Nazib - NDT Lev.II

Date: 16 May 2018



Client Representative:

Name:

Date:



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## RADIOGRAPHIC EXAMINATION REPORT

### Client and Testing Particulars

Client :	PMI-Technology Sdn Bhd	Procedure No:	NT/RT/ASME Rev 7.0
Project :	PMI-WPS-AS-10H/10H-G-125	IQI type :	ASTM 1B
Material:	SA 790 UNS S32205 TP SA 240 790 S32205	Film Manufacturer/Type :	FUJI 50(class I)
		Density :	2.0 - 3.5
		Sensitivity:	0.33mm(5 wires visible)
		Source to Object Distance :	88.9mm
		Source Side of Object to Film Distance:	(7.62+3)mm
Welding Process :	GTAW	No of Radiograph(exposure) :	Single Exposure
Examination Code :	ASME V	No. of Film Each Cassette :	1 Film
Acceptance Code:	ASME Section IX ; 2017 Edition.	Radiographic Technique :	DWSI
		Film Viewing Technique :	Single Wall Viewing
Examination Date:	15 May 2018	Source Type/Size :	Iridium192 (3.2mm)
		Location Markers :	Film Side

### Radlographic Examination Result

Weld Reference (Welder No)	WT	RT	Pipe Diameter	Material Thickness	Film Position	Film Interpretation	Result	Remarks
	(mm)	(mm)	(mm)	(mm)				
Lee Choong Yuen 670328-08-5194 (W-002)	TP-1 6G	10.62	3	88.9	7.62	0 - 1	NRI	Accept
						1 - 2	NRI	Accept
						2 - 0	NRI	Accept
TP-2 6G	10.62	3	88.9	7.62	0 - 1	NRI	Accept	
						1 - 2	NRI	Accept
						2 - 0	NRI	Accept

End of Report

#### Legend:

TI: Tungsten Inclusion	NRI: No Relevant Indication	UN: Undercut	Por: Porosity	WT: Weld Thickness
SI: Slag Inclusion	LP: Lack of Penetration	Con: Concavity	BT: Burn Through	RT: Reinforcement Thickness
LF: Lack of Fusion	EP: Excess Penetration	AR: Artifact	Sur: Surface	

### Personnel Particulars

Radiographer : Emirsham - NDT Lev. II

Client Representative:

Interpreted & M.Nazib - NDT Lev.II

Evaluated By:

Name:

Date: 16 May 2018

Date:

